

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P291327

Luminaire Tested: **14GR-LD5-40-A125-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P291327
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33315)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14GR-LD5-40-A125-UNV-L92765-W2A1-U-4500K
Description: GRLED 1x4 TUNABLE WHITE TROFFER
WITH A125 LENS
Light Source: (168) 90 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3749.0 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.21 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

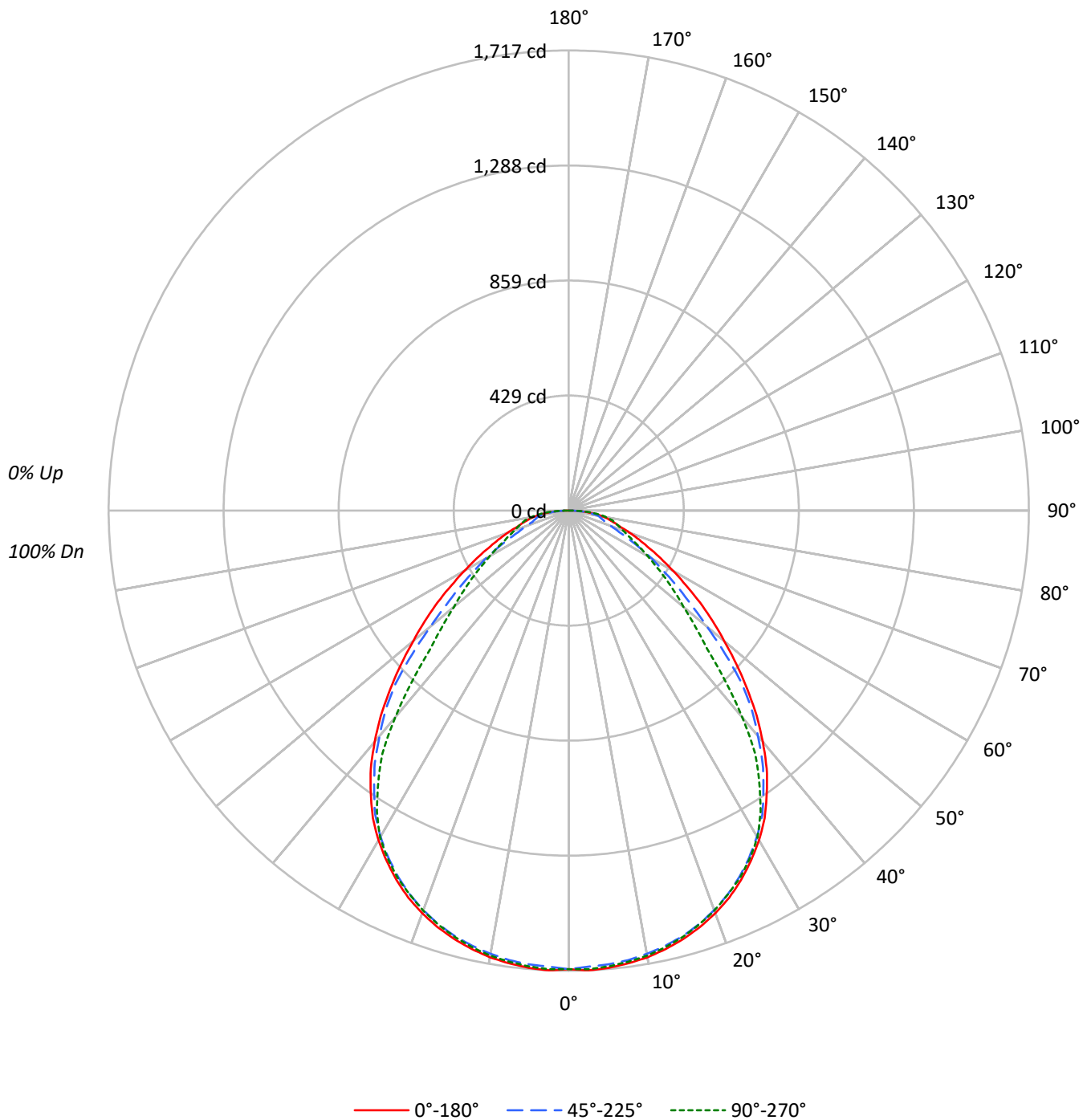
Input Watts (W): 34.317
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	110	106	102	98	107	103	100	97	99	96	94		95	93	91		92
2	101	94	88	82	99	92	86	82	88	84	80		85	81	78		82
3	93	84	76	70	91	82	75	70	79	73	69		77	72	67		74
4	86	75	67	61	84	74	66	61	71	65	60		69	64	59		67
5	80	68	60	54	78	67	59	53	65	58	53		63	57	52		61
6	74	62	54	48	72	61	53	47	59	52	47		58	51	47		56
7	69	56	48	43	67	56	48	42	54	47	42		53	47	42		52
8	65	52	44	38	63	51	44	38	50	43	38		49	42	38		48
9	60	48	40	35	59	47	40	35	46	39	35		45	39	34		44
10	57	44	37	32	56	44	37	32	43	36	32		42	36	32		41

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4604	4604	4604
5°	4626	4591	4612
10°	4625	4589	4608
15°	4609	4579	4587
20°	4578	4543	4548
25°	4517	4475	4488
30°	4413	4364	4375
35°	4232	4160	4072
40°	3956	3859	3541
45°	3581	3479	2777
50°	3168	2815	2341
55°	2803	2313	2065
60°	2420	1914	1830
65°	2104	1523	1684
70°	1902	1307	1684
75°	1827	1365	1881
80°	2035	1739	2197
85°	2149	1853	2631



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.3	4.3
10°-20°	465.1	12.4
20°-30°	696.0	18.6
30°-40°	787.8	21.0
40°-50°	671.1	17.9
50°-60°	454.4	12.1
60°-70°	271.3	7.2
70°-80°	169.5	4.5
80°-90°	71.6	1.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1323.3	35.3
0°-40°	2111.2	56.3
0°-60°	3236.6	86.3
0°-90°	3749.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3749.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1711	1711	1711	1711	1711	
5°	1712	1708	1700	1710	1707	163
15°	1654	1648	1644	1654	1646	467
25°	1521	1517	1507	1514	1512	700
35°	1288	1280	1266	1253	1239	803
45°	941	944	914	779	730	726
55°	598	564	493	440	440	534
65°	330	276	239	256	264	333
75°	176	157	131	172	181	190
85°	70	64	60	76	85	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1710.8	1710.8	1710.8	1710.8	1710.8
2.5°	1716.9	1712.5	1703.0	1714.3	1712.5
5°	1712.5	1708.2	1699.5	1709.9	1707.3
7.5°	1703.8	1699.5	1691.7	1702.1	1697.7
10°	1692.5	1687.3	1679.5	1690.8	1686.4
12.5°	1675.1	1669.9	1663.0	1674.3	1668.2
15°	1654.3	1648.2	1643.8	1654.3	1646.4
17.5°	1629.0	1623.8	1617.7	1628.2	1619.5
20°	1598.6	1594.2	1586.4	1592.5	1588.2
22.5°	1563.8	1557.7	1549.9	1556.8	1550.8
25°	1521.2	1516.8	1507.3	1514.2	1511.6
27.5°	1472.5	1469.9	1458.6	1467.3	1462.9
30°	1420.3	1413.3	1404.6	1407.2	1408.1
32.5°	1360.3	1351.6	1344.6	1338.5	1332.4
35°	1288.1	1280.3	1266.3	1253.3	1239.4
37.5°	1213.3	1202.9	1188.9	1160.2	1142.8
40°	1126.3	1121.1	1098.5	1058.5	1008.0
42.5°	1037.6	1032.4	1012.4	922.8	868.0
45°	941.1	943.7	914.1	779.3	729.7
47.5°	848.9	855.8	791.5	665.4	639.3
50°	756.7	764.5	672.3	574.9	559.2
52.5°	675.8	669.7	573.2	504.5	497.5
55°	597.5	564.5	493.1	440.1	440.1
57.5°	517.5	470.5	419.2	385.3	385.3
60°	449.7	391.4	355.7	333.1	340.1
62.5°	387.0	325.3	294.8	290.5	299.2
65°	330.5	275.7	239.2	255.7	264.4
67.5°	284.4	235.7	196.6	231.4	236.6
70°	241.8	205.3	166.1	213.1	214.0
72.5°	202.7	180.9	142.6	193.1	196.6
75°	175.7	157.4	131.3	172.2	180.9
77.5°	153.9	134.8	120.9	148.7	165.3
80°	131.3	110.5	112.2	125.2	141.8
82.5°	100.9	85.2	88.7	102.6	115.7
85°	69.6	64.4	60.0	75.7	85.2
87.5°	37.4	34.8	30.4	42.6	43.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)